



# Nissen Low Chloride Metal Marker

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision Date: 05/01/2014

Version: 1.0

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### Product Identifier

**Product Form:** Mixture

**Product Name:** Nissen Low Chloride Metal Marker

**Synonyms:** White Part# 00250, 00251, 00252; Yellow Part# 00253, 00254, 00255; Black Part# 00256, 00257, 00258; Red Part# 00259, 00260, 00261; Blue Part# 00262, 00263, 00264; Green Part# 00265, 00266, 00267; Orange Part# 00268, 00269, 00270; Pink Part# 00271, 00272, 00273

**Intended Use of the Product** No additional information available.

### Name, Address, and Telephone of the Responsible Party

#### Company

J.P. Nissen Co.  
2544 Fairhill Avenue  
Glenside, PA 19038  
T 215-886-2025  
F 215-886-0707

### Emergency Telephone Number

**Emergency number** : 1-800-424-9300

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### Classification (GHS-US)

Flam. Liq. 3 H226  
Skin Sens. 1 H317  
Muta. 1B H340  
Carc. 1B H350  
Asp. Tox. 1 H304  
Aquatic Acute 1 H400  
Aquatic Chronic 2 H411

### Label Elements

#### GHS-US Labeling

#### Hazard Pictograms (GHS-US)



**Signal Word (GHS-US)** : Danger

**Hazard Statements (GHS-US)** : H226 - Flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H317 - May cause an allergic skin reaction  
H340 - May cause genetic defects  
H350 - May cause cancer  
H400 - Very toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects

**Precautionary Statements (GHS-US)** : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical, ventilating, and lighting equipment.

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P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P321 - Specific treatment (see section 4).  
P331 - If swallowed, do NOT induce vomiting  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use appropriate media for extinction.  
P391 - Collect spillage.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

### Other Hazards

**Other Hazards Not Contributing to the Classification:** Flammable vapors can accumulate in head space of closed systems. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

#### Mixture

| Name  | Product identifier  | % (w/w)             | Classification (GHS-US)   |
|---|---------------------|---------------------|---|
| Titanium dioxide  | (CAS No) 13463-67-7 | 30 - 35             | Comb. Dust  |
| Stoddard solvent  | (CAS No) 8052-41-3  | 33 - 35             | Flam. Liq. 3, H226<br>Muta. 1B, H340<br>Carc. 1B, H350<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |
| Carbon black  | (CAS No) 1333-86-4  | 1 - 5, and 3<br>- 7 | Carc. 2, H351   |
| C.I. Pigment Yellow 74  | (CAS No) 6358-31-2  | 1 - 5               | Not classified  |
| 2-Naphthalenecarboxamide, 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxy-  | (CAS No) 2786-76-7  | 1 - 4               | Skin Sens. 1, H317  |
| Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with montmorillonite ((Al <sub>1.33</sub> -1.67Mg <sub>0.33</sub> -0.67)(Ca <sub>0</sub> -1Na <sub>0</sub> -1)0.33Si <sub>4</sub> (OH) <sub>2</sub> O <sub>10</sub> .xH <sub>2</sub> O)) | (CAS No) 68911-87-5 | 1 - 2               | Not classified  |
| Solvent naphtha, petroleum, medium aliphatic  | (CAS No) 64742-88-7 | 0.1 - 1             | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 3, H402                      |

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|  |                     |         |                         |
|--|---------------------|---------|-------------------------|
|  |                     |         | Aquatic Chronic 2, H411 |
| Ferrate(4-), hexakis(cyano-C)-, iron(3+) potassium (1:1:1), (OC-6-11)- | (CAS No) 25869-98-1 | 0.1 - 1 | Not classified          |

Reason for multiple WHMIS ranges: Fluctuating concentration.

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms and Effects Both Acute and Delayed

**General:** May cause cancer. May cause genetic defects. May be fatal if swallowed and enters airways. May cause an allergic skin reaction.

**Inhalation:** May cause drowsiness or dizziness.

**Skin Contact:** May cause skin irritation. Exposure may produce an allergic reaction.

**Eye Contact:** May cause eye irritation.

**Ingestion:** May be fatal if swallowed and enters airways. Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Not available

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use extinguishing media containing water.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Flammable liquid and vapor.

**Explosion Hazard:** May form flammable/explosive vapor-air mixture.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Sulfur oxides. Oxides of titanium. May liberate toxic gases. Hydrocarbons. Oxides of aluminum.

**Other information:** Do not allow run-off from fire fighting to enter drains or water courses. Do not allow the product to be released into the environment.

#### Reference to Other Sections

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid breathing (vapors, mist, spray). Use only outdoors or in a well-ventilated area. Do not allow product to spread into the environment. Avoid all contact with skin, eyes, or clothing.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

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**Emergency Procedures:** Evacuate unnecessary personnel.

### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Collect spillage. Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. Contact competent authorities after a spill.

### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable. When heated to decomposition, emits toxic fumes. Use only non-sparking tools.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash hands and forearms thoroughly after handling.

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Comply with applicable regulations.

**Storage Conditions:** Store in a well-ventilated place. Keep container tightly closed. Keep/Store away from extremely high or low temperatures, ignition sources, combustible materials, incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers. Water. Halogenated compounds.

**Specific End Use(s)** Not available

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control Parameters**

| <b>Titanium dioxide (13463-67-7)</b> |                                     |  |
|--------------------------------------|-------------------------------------|--|
| Mexico                               | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>   |
| Mexico                               | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup>   |
| USA ACGIH                            | ACGIH TWA (mg/m <sup>3</sup> )      | 10 mg/m <sup>3</sup>   |
| USA OSHA                             | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup>   |
| USA IDLH                             | US IDLH (mg/m <sup>3</sup> )        | 5000 mg/m <sup>3</sup>   |
| Alberta                              | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>   |
| British Columbia                     | OEL TWA (mg/m <sup>3</sup> )        | 3 mg/m <sup>3</sup>  |
| Manitoba                             | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>   |
| New Brunswick                        | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>   |
| Newfoundland & Labrador              | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>   |
| Nova Scotia                          | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>   |
| Nunavut                              | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (total mass)  |
| Northwest Territories                | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (total mass)  |
| Ontario                              | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>   |
| Prince Edward Island                 | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>   |
| Québec                               | VEMP (mg/m <sup>3</sup> )           | 10 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica) |
| Saskatchewan                         | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup>   |
| Saskatchewan                         | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>   |
| Yukon                                | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup>   |

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|                                     |  |  |
|-------------------------------------|--|--|
| Yukon                               | OEL TWA (mg/m <sup>3</sup> )             | 10 mg/m <sup>3</sup>   |
| <b>Carbon black (1333-86-4)</b>     |  |  |
| Mexico                              | OEL TWA (mg/m <sup>3</sup> )             | 3.5 mg/m <sup>3</sup>  |
| Mexico                              | OEL STEL (mg/m <sup>3</sup> )            | 7 mg/m <sup>3</sup>  |
| USA ACGIH                           | ACGIH TWA (mg/m <sup>3</sup> )           | 3 mg/m <sup>3</sup>  |
| USA OSHA                            | OSHA PEL (TWA) (mg/m <sup>3</sup> )      | 3.5 mg/m <sup>3</sup>  |
| USA NIOSH                           | NIOSH REL (TWA) (mg/m <sup>3</sup> )     | 0.1 mg/m <sup>3</sup> (Carbon black in presence of Polycyclic aromatic hydrocarbons) |
| USA IDLH                            | US IDLH (mg/m <sup>3</sup> )             | 1750 mg/m <sup>3</sup>   |
| Alberta                             | OEL TWA (mg/m <sup>3</sup> )             | 3.5 mg/m <sup>3</sup>  |
| British Columbia                    | OEL TWA (mg/m <sup>3</sup> )             | 3 mg/m <sup>3</sup>  |
| Manitoba                            | OEL TWA (mg/m <sup>3</sup> )             | 3 mg/m <sup>3</sup>  |
| New Brunswick                       | OEL TWA (mg/m <sup>3</sup> )             | 3.5 mg/m <sup>3</sup>  |
| Newfoundland & Labrador             | OEL TWA (mg/m <sup>3</sup> )             | 3 mg/m <sup>3</sup>  |
| Nova Scotia                         | OEL TWA (mg/m <sup>3</sup> )             | 3 mg/m <sup>3</sup>  |
| Nunavut                             | OEL STEL (mg/m <sup>3</sup> )            | 7 mg/m <sup>3</sup>  |
| Nunavut                             | OEL TWA (mg/m <sup>3</sup> )             | 3.5 mg/m <sup>3</sup>  |
| Northwest Territories               | OEL STEL (mg/m <sup>3</sup> )            | 7 mg/m <sup>3</sup>  |
| Northwest Territories               | OEL TWA (mg/m <sup>3</sup> )             | 3.5 mg/m <sup>3</sup>  |
| Ontario                             | OEL TWA (mg/m <sup>3</sup> )             | 3 mg/m <sup>3</sup>  |
| Prince Edward Island                | OEL TWA (mg/m <sup>3</sup> )             | 3 mg/m <sup>3</sup>  |
| Québec                              | VEMP (mg/m <sup>3</sup> )                | 3.5 mg/m <sup>3</sup>  |
| Saskatchewan                        | OEL STEL (mg/m <sup>3</sup> )            | 7 mg/m <sup>3</sup>  |
| Saskatchewan                        | OEL TWA (mg/m <sup>3</sup> )             | 3.5 mg/m <sup>3</sup>  |
| Yukon                               | OEL STEL (mg/m <sup>3</sup> )            | 7 mg/m <sup>3</sup>  |
| Yukon                               | OEL TWA (mg/m <sup>3</sup> )             | 3.5 mg/m <sup>3</sup>  |
| <b>Stoddard solvent (8052-41-3)</b> |  |  |
| Mexico                              | OEL TWA (mg/m <sup>3</sup> )             | 523 mg/m <sup>3</sup>  |
| Mexico                              | OEL TWA (ppm)                            | 100 ppm  |
| Mexico                              | OEL STEL (mg/m <sup>3</sup> )            | 1050 mg/m <sup>3</sup>   |
| Mexico                              | OEL STEL (ppm)                           | 200 ppm  |
| USA ACGIH                           | ACGIH TWA (ppm)                          | 100 ppm  |
| USA OSHA                            | OSHA PEL (TWA) (mg/m <sup>3</sup> )      | 2900 mg/m <sup>3</sup>   |
| USA OSHA                            | OSHA PEL (TWA) (ppm)                     | 500 ppm  |
| USA NIOSH                           | NIOSH REL (TWA) (mg/m <sup>3</sup> )     | 350 mg/m <sup>3</sup>  |
| USA NIOSH                           | NIOSH REL (ceiling) (mg/m <sup>3</sup> ) | 1800 mg/m <sup>3</sup>   |
| USA IDLH                            | US IDLH (mg/m <sup>3</sup> )             | 20000 mg/m <sup>3</sup>  |
| Alberta                             | OEL TWA (mg/m <sup>3</sup> )             | 572 mg/m <sup>3</sup>  |
| Alberta                             | OEL TWA (ppm)                            | 100 ppm  |
| British Columbia                    | OEL STEL (mg/m <sup>3</sup> )            | 580 mg/m <sup>3</sup>  |
| British Columbia                    | OEL TWA (mg/m <sup>3</sup> )             | 290 mg/m <sup>3</sup>  |
| Manitoba                            | OEL TWA (ppm)                            | 100 ppm  |
| New Brunswick                       | OEL TWA (mg/m <sup>3</sup> )             | 525 mg/m <sup>3</sup>  |
| New Brunswick                       | OEL TWA (ppm)                            | 100 ppm  |
| Newfoundland & Labrador             | OEL TWA (ppm)                            | 100 ppm  |
| Nova Scotia                         | OEL TWA (ppm)                            | 100 ppm  |
| Nunavut                             | OEL STEL (mg/m <sup>3</sup> )            | 720 mg/m <sup>3</sup>  |
| Nunavut                             | OEL STEL (ppm)                           | 125 ppm  |
| Nunavut                             | OEL TWA (mg/m <sup>3</sup> )             | 575 mg/m <sup>3</sup>  |
| Nunavut                             | OEL TWA (ppm)                            | 100 ppm  |

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|                       |                               |   |
|-----------------------|-------------------------------|---|
| Northwest Territories | OEL STEL (mg/m <sup>3</sup> ) | 720 mg/m <sup>3</sup>                                 |
| Northwest Territories | OEL STEL (ppm)                | 125 ppm   |
| Northwest Territories | OEL TWA (mg/m <sup>3</sup> )  | 575 mg/m <sup>3</sup>                                 |
| Northwest Territories | OEL TWA (ppm)                 | 100 ppm   |
| Ontario               | OEL TWA (mg/m <sup>3</sup> )  | 525 mg/m <sup>3</sup> (140°C Flash aliphatic solvent) |
| Prince Edward Island  | OEL TWA (ppm)                 | 100 ppm   |
| Québec                | VEMP (mg/m <sup>3</sup> )     | 525 mg/m <sup>3</sup>                                 |
| Québec                | VEMP (ppm)                    | 100 ppm   |
| Saskatchewan          | OEL STEL (ppm)                | 125 ppm   |
| Saskatchewan          | OEL TWA (ppm)                 | 100 ppm   |
| Yukon                 | OEL STEL (mg/m <sup>3</sup> ) | 720 mg/m <sup>3</sup>                                 |
| Yukon                 | OEL STEL (ppm)                | 150 ppm   |
| Yukon                 | OEL TWA (mg/m <sup>3</sup> )  | 575 mg/m <sup>3</sup>                                 |
| Yukon                 | OEL TWA (ppm)                 | 100 ppm   |

### Exposure Controls

**Appropriate Engineering Controls:** Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Take precautionary measures against static discharges. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Wear fire/flammable resistant/retardant clothing.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

**Thermal Hazard Protection:** Wear suitable protective clothing.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

|  |                                  |
|--|----------------------------------|
| Physical State                             | : Liquid                         |
| Appearance                                 | : Viscous Liquid                 |
| Odor                                       | : Aromatic                       |
| Odor Threshold                             | : Not available                  |
| pH   | : Not available                  |
| Relative Evaporation Rate (butylacetate=1) | : Not available                  |
| Relative evaporation rate (ether=1)        | : (Slower than n-butyl acetate)  |
| Melting Point                              | : Not available                  |
| Freezing Point                             | : Not available                  |
| Boiling Point                              | : 318 - 385 °C (158.9°F-196.1°F) |
| Flash Point                                | : 43.9 °C (111°F)                |
| Auto-ignition Temperature                  | : Not available                  |
| Decomposition Temperature                  | : Not available                  |
| Flammability (solid, gas)                  | : Not available                  |
| Lower Flammable Limit                      | : 1 % (Explosive limit)          |
| Upper Flammable Limit                      | : 7 % (Explosive limit)          |

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|  |                    |
|--|--------------------|
| <b>Vapor Pressure</b>                                    | : Not available    |
| <b>Relative Vapor Density at 20 °C</b>                   | : Heavier than air |
| <b>Relative Density</b>                                  | : Not available    |
| <b>Specific Gravity</b>                                  | : < 1              |
| <b>Solubility</b>  | : Not available    |
| <b>Log Pow</b>   | : Not available    |
| <b>Log Kow</b>   | : Not available    |
| <b>Viscosity, Kinematic</b>                              | : Not available    |
| <b>Viscosity, Dynamic</b>                                | : Not available    |
| <b>Explosion Data – Sensitivity to Mechanical Impact</b> | : Not available    |
| <b>Explosion Data – Sensitivity to Static Discharge</b>  | : Not available    |

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers. Water. Halogenated compounds.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). May release flammable gases. Oxides of titanium. Nitrogen oxides. Sulfur oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** May cause genetic defects.

**Teratogenicity:** Not available

**Carcinogenicity:** May cause cancer.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Symptoms/Injuries After Inhalation:** May cause drowsiness or dizziness.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation. Exposure may produce an allergic reaction.

**Symptoms/Injuries After Eye Contact:** May cause eye irritation.

**Symptoms/Injuries After Ingestion:** May be fatal if swallowed and enters airways. Ingestion is likely to be harmful or have adverse effects.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

| <b>Titanium dioxide (13463-67-7)</b> |                                |
|--------------------------------------|--------------------------------|
| LD50 Oral Rat                        | > 10000 mg/kg                  |
| <b>Stoddard solvent (8052-41-3)</b>  |                                |
| LD50 Oral Rat                        | > 5 g/kg Behavioral somnolence |
| LD50 Dermal Rabbit                   | > 3 mg/kg                      |

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|--|------------------------------|
| <b>Solvent naphtha, petroleum, medium aliphatic (64742-88-7)</b>                           |                              |
| LD50 Oral Rat  | > 5000 mg/kg                 |
| LD50 Dermal Rabbit   | 3000 mg/kg                   |
| LC50 Inhalation Rat (mg/l)   | > 5.28 mg/l/4h               |
| <b>Ferrate(4-), hexakis(cyano-C)-, iron(3+) potassium (1:1:1), (OC-6-11)- (25869-98-1)</b> |                              |
| LD50 Oral Rat  | > 5000 mg/kg                 |
| <b>Titanium dioxide (13463-67-7)</b>   |                              |
| IARC Group   | 2B                           |
| <b>Carbon black (1333-86-4)</b>  |                              |
| IARC Group   | 2B                           |
| <b>Solvent naphtha, petroleum, medium aliphatic (64742-88-7)</b>                           |                              |
| National Toxicity Program (NTP) Status   | Evidence of Carcinogenicity. |

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Very toxic to aquatic life with long lasting effects.

|                                 |  |
|---------------------------------|--|
| <b>Carbon black (1333-86-4)</b> |  |
| LC50 Fish 1                     | 5601 mg/l  |
| EC50 Daphnia 1                  | 5600 mg/l (Exposure time: 24 h - Species: Daphnia magna) |

|                                     |           |
|-------------------------------------|-----------|
| <b>Stoddard solvent (8052-41-3)</b> |           |
| LC50 Fish 1                         | 0.42 mg/l |

|  |   |
|--|---|
| <b>Solvent naphtha, petroleum, medium aliphatic (64742-88-7)</b> |   |
| LC50 Fish 1  | 800 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])    |
| EC50 Daphnia 1   | > 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)                 |
| EC50 Other Aquatic Organisms 1                                   | 450 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) |

### Persistence and Degradability

|   |   |
|---|---|
| <b>Nissen Low Chloride Metal Marker</b> |   |
| Persistence and Degradability           | May cause long-term adverse effects in the environment. |

### Bioaccumulative Potential

|   |                  |
|---|------------------|
| <b>Nissen Low Chloride Metal Marker</b> |                  |
| Bioaccumulative Potential               | Not established. |

|                                     |  |
|-------------------------------------|--|
| <b>Stoddard solvent (8052-41-3)</b> |  |
| Log Pow                             | 3.16 (Octanol/water partition coefficient 3.16/7.06) |

|  |                            |
|--|----------------------------|
| <b>Solvent naphtha, petroleum, medium aliphatic (64742-88-7)</b> |                            |
| BCF fish 1   | (bioaccumulation expected) |

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

**Ecology – Waste Materials:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 In Accordance with DOT

**Proper Shipping Name** : CONSUMER COMMODITY

**Hazard Class** : 9





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**Identification Number** : ID8000

**Label Codes** : 9

**ERG Number** : 171

### 14.2 In Accordance with IMDG

**Proper Shipping Name** : PAINT

**Hazard Class** : 3

**Identification Number** : UN1263

**Packing Group** : III

**Label Codes** : 3

**EmS-No. (Fire)** : F-E

**EmS-No. (Spillage)** : S-E



### 14.3 In Accordance with IATA

**Proper Shipping Name** : CONSUMER COMMODITY

**Identification Number** : ID8000

**Hazard Class** : 9

**Label Codes** : 9

**ERG Code (IATA)** : 9L



### 14.4 In Accordance with TDG

**Proper Shipping Name** : CONSUMER COMMODITY

**Hazard Class** : 9

**Identification Number** : ID8000

**Label Codes** : 9



## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

|   |   |
|---|---|
| <b>Nissen Low Chloride Metal Marker</b>   |   |
| <b>SARA Section 311/312 Hazard Classes</b>  | Delayed (chronic) health hazard<br>Fire hazard<br>Immediate (acute) health hazard |
| <b>Titanium dioxide (13463-67-7)</b>  |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory   |   |
| <b>Carbon black (1333-86-4)</b>   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory   |   |
| <b>Stoddard solvent (8052-41-3)</b>   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory   |   |
| <b>Solvent naphtha, petroleum, medium aliphatic (64742-88-7)</b>  |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory   |   |
| <b>Ferrate(4-), hexakis(cyano-C)-, iron(3+) potassium (1:1:1), (OC-6-11)- (25869-98-1)</b>  |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory   |   |
| <b>Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with montmorillonite ((Al1.33-1.67Mg0.33-0.67)(Ca0-1Na0-1)0.33Si4(OH)2O10.xH2O)) (68911-87-5)</b> |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory   |   |
| <b>C.I. Pigment Yellow 74 (6358-31-2)</b>   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory   |   |
| <b>2-Naphthalenecarboxamide, 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxy- (2786-76-7)</b>   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory   |   |

### US State Regulations

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|   |  |
|---|--|
| <b>Titanium dioxide (13463-67-7)</b>  |  |
| <b>U.S. - California - Proposition 65 - Carcinogens List</b>                                | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| <b>Carbon black (1333-86-4)</b>   |  |
| <b>U.S. - California - Proposition 65 - Carcinogens List</b>                                | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| <b>Titanium dioxide (13463-67-7)</b>  |  |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)                               |  |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)                                 |  |
| U.S. - Idaho - Occupational Exposure Limits - TWAs  |  |
| U.S. - Illinois - Toxic Air Contaminant Carcinogens   |  |
| U.S. - Massachusetts - Right To Know List   |  |
| U.S. - Michigan - Occupational Exposure Limits - TWAs                                       |  |
| U.S. - Minnesota - Chemicals of High Concern  |  |
| U.S. - Minnesota - Hazardous Substance List   |  |
| U.S. - Minnesota - Permissible Exposure Limits - TWAs                                       |  |
| U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour |  |
| U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  |  |
| U.S. - New Jersey - Right to Know Hazardous Substance List                                  |  |
| U.S. - New York - Occupational Exposure Limits - TWAs                                       |  |
| U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour                    |  |
| U.S. - Oregon - Permissible Exposure Limits - TWAs  |  |
| U.S. - Pennsylvania - RTK (Right to Know) List  |  |
| U.S. - Tennessee - Occupational Exposure Limits - TWAs                                      |  |
| U.S. - Texas - Effects Screening Levels - Long Term   |  |
| U.S. - Texas - Effects Screening Levels - Short Term  |  |
| U.S. - Vermont - Permissible Exposure Limits - TWAs   |  |
| U.S. - Washington - Permissible Exposure Limits - STELS                                     |  |
| U.S. - Washington - Permissible Exposure Limits - TWAs                                      |  |
| <b>Carbon black (1333-86-4)</b>   |  |
| U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)                           |  |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)                               |  |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)                                 |  |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations    |  |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)                |  |
| U.S. - Idaho - Occupational Exposure Limits - TWAs  |  |
| U.S. - Illinois - Toxic Air Contaminant Carcinogens   |  |
| U.S. - Illinois - Toxic Air Contaminants  |  |
| U.S. - Maine - Chemicals of High Concern  |  |
| U.S. - Massachusetts - Right To Know List   |  |
| U.S. - Michigan - Occupational Exposure Limits - TWAs                                       |  |
| U.S. - Minnesota - Chemicals of High Concern  |  |
| U.S. - Minnesota - Hazardous Substance List   |  |
| U.S. - Minnesota - Permissible Exposure Limits - TWAs                                       |  |
| U.S. - New Jersey - Right to Know Hazardous Substance List                                  |  |
| U.S. - New Jersey - Special Health Hazards Substances List                                  |  |
| U.S. - New York - Occupational Exposure Limits - TWAs                                       |  |
| U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour                    |  |
| U.S. - Oregon - Permissible Exposure Limits - TWAs  |  |
| U.S. - Pennsylvania - RTK (Right to Know) List  |  |
| U.S. - Tennessee - Occupational Exposure Limits - TWAs                                      |  |
| U.S. - Texas - Effects Screening Levels - Long Term   |  |

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U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Vermont - Permissible Exposure Limits - TWAs  
U.S. - Washington - Permissible Exposure Limits - STELS  
U.S. - Washington - Permissible Exposure Limits - TWAs  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

### **Stoddard solvent (8052-41-3)**

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)  
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
U.S. - Idaho - Occupational Exposure Limits - TWAs  
U.S. - Massachusetts - Right To Know List  
U.S. - Michigan - Occupational Exposure Limits - TWAs  
U.S. - Minnesota - Chemicals of High Concern  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Minnesota - Permissible Exposure Limits - TWAs  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New York - Occupational Exposure Limits - TWAs  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
U.S. - Oregon - Permissible Exposure Limits - TWAs  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Tennessee - Occupational Exposure Limits - TWAs  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Vermont - Permissible Exposure Limits - TWAs  
U.S. - Washington - Permissible Exposure Limits - STELS  
U.S. - Washington - Permissible Exposure Limits - TWAs  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

### **Solvent naphtha, petroleum, medium aliphatic (64742-88-7)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Jersey - Special Health Hazards Substances List  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

### **Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with montmorillonite ((Al1.33-1.67Mg0.33-0.67)(Ca0-1Na0-1)0.33Si4(OH)2O10.xH2O)) (68911-87-5)**

U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

### **C.I. Pigment Yellow 74 (6358-31-2)**

U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

### **2-Naphthalenecarboxamide, 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxy- (2786-76-7)**



U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

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### Canadian Regulations

|   |  |
|---|--|
| <b>Nissen Low Chloride Metal Marker</b>   |  |
| WHMIS Classification  | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|    |   |
| <b>Titanium dioxide (13463-67-7)</b>  |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory.  |  |
| WHMIS Classification  | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects   |
| <b>Carbon black (1333-86-4)</b>   |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory.<br>Listed on the Canadian Ingredient Disclosure List   |  |
| WHMIS Classification  | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects   |
| <b>Stoddard solvent (8052-41-3)</b>   |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory.<br>Listed on the Canadian Ingredient Disclosure List   |  |
| WHMIS Classification  | Class B Division 3 - Combustible Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects   |
| <b>Solvent naphtha, petroleum, medium aliphatic (64742-88-7)</b>  |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory.  |  |
| WHMIS Classification  | Class B Division 3 - Combustible Liquid  |
| <b>Ferrate(4-), hexakis(cyano-C)-, iron(3+) potassium (1:1:1), (OC-6-11)- (25869-98-1)</b>  |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory.  |  |
| WHMIS Classification  | Uncontrolled product according to WHMIS classification criteria  |
| <b>Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with montmorillonite ((Al1.33-1.67Mg0.33-0.67)(Ca0-1Na0-1)0.33Si4(OH)2O10.xH2O)) (68911-87-5)</b> |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory.  |  |
| WHMIS Classification  | Uncontrolled product according to WHMIS classification criteria  |
| <b>C.I. Pigment Yellow 74 (6358-31-2)</b>   |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory.  |  |
| WHMIS Classification  | Uncontrolled product according to WHMIS classification criteria  |
| <b>2-Naphthalenecarboxamide, 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxy- (2786-76-7)</b>   |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory.  |  |
| WHMIS Classification  | Class D Division 2 Subdivision B - Toxic material causing other toxic effects  |

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION

**Revision date** : 05/01/2014  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

|                   |  |
|-------------------|--|
| Aquatic Acute 1   | Hazardous to the aquatic environment - Acute Hazard Category 1   |
| Aquatic Acute 3   | Hazardous to the aquatic environment - Acute Hazard Category 3   |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |

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|               |   |
|---------------|---|
| Asp. Tox. 1   | Aspiration hazard Category 1                                |
| Carc. 1B      | Carcinogenicity Category 1B                                 |
| Carc. 2       | Carcinogenicity Category 2                                  |
| Comb. Dust    | Combustible Dust  |
| Flam. Liq. 3  | Flammable liquids Category 3                                |
| Muta. 1B      | Germ cell mutagenicity Category 1B                          |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2                        |
| Skin Sens. 1  | Skin sensitization Category 1                               |
| STOT SE 3     | Specific target organ toxicity (single exposure) Category 3 |
| H226          | Flammable liquid and vapor                                  |
|               | May form combustible dust concentrations in air             |
| H304          | May be fatal if swallowed and enters airways                |
| H315          | Causes skin irritation                                      |
| H317          | May cause an allergic skin reaction                         |
| H336          | May cause drowsiness or dizziness                           |
| H340          | May cause genetic defects                                   |
| H350          | May cause cancer  |
| H351          | Suspected of causing cancer                                 |
| H400          | Very toxic to aquatic life                                  |
| H402          | Harmful to aquatic life                                     |
| H411          | Toxic to aquatic life with long lasting effects             |

### NFPA Health Hazard

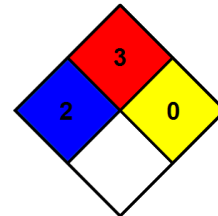
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

### NFPA Fire Hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

### NFPA Reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### Party Responsible for the Preparation of This Document

J.P. Nissen Co.  
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Glenside, PA 19038  
215-886-2025

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2